STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

March 23, 2012

CONTRACT NO.: DB00065
WBS ELEMENTS: 17BP.2.R.6, 17BP.2.R.7
COUNTY: Craven
ROUTES: SR 1003, SR 1433
DESCRIPTION: Bridge to Pipe Replacement Projects
ADDENDUM NUMBER 2

TO: Prospective Bidders

Please note the following revisions to the contract proposal for the above-referenced project.

- Replace Pages 32-33 of the original document with the revised versions, allowing the use of either #5 or #57 stone.
- Replace the Bid Form with the attached version. The item order given in the previous revision was incorrect.

The Revised Bid Form #2 must be used for the submitted bid to be valid. Using the original Bid Form will cause your bid to be rejected. The remainder of the proposal document is unaffected. If you should have any questions concerning this addendum, please call me at (252) 695-2044.

Sincerely,

Aaron Bullard, PE
Division Contract Officer

Attachments

cc: Mr. Ed Eatmon, PE
Mr. Johnny Metcalfe, PE
Ms. Maria Rogerson, PE
Mr. John Hughes

Design of the aluminum structural plated pipe arch shall be the responsibility of the Contractor and shall comply with the latest AASHTO design specifications and requirements. The Contractor shall submit, fourteen (14) days prior to commencing work at each site, two sets of detailed plans and design calculations that have been checked and sealed by a North Carolina Registered Professional Engineer. The plans should be submitted to the Division Bridge Program Manager.

Payment will be made under:

Pay Item	**Pay Unit**
Aluminum Structural Plated Pipe Arch – 12'-3" x 7'-3" with Headwalls	Each

GENERAL ALUMINUM STRUCTURE REQUIREMENTS:

All items are incidental to Aluminum Box Culvert and Aluminum Structural Plated Pipe Arch (ASPPA):

- All materials shall meet the requirements of the *2012 Standard Specifications.*
- Pipe material shall be made of aluminum alloy and in dimensions per the standard specifications and hydraulic recommendations.
- Poor quality of workmanship of any materials supplied will constitute grounds for the structure being rejected.
- Manufacturer's representative, with at least two (2) years of experience in the installation of the type of structure, is required to provide technical assistance with the assembly of structure and headwalls as well as being on site during the installation and backfilling of pipe with headwalls through completion.
- Detailed shop drawings and design calculations shall be submitted for acceptance. The supplier shall provide a design that meets the requirements of AASHTO and is sealed by a NC registered Professional Engineer.
- Headwall locations shall be at or beyond the shoulder point.
- Headwalls will be required on the inlet and outlet of all pipes.
- All headwalls shall be parallel to the roadway.
- Pipe invert elevations shall be 1' below streambed.
- Headwall foundation shall be undercut and backfilled with either #5 or #57 stone 1' below bottom of headwall elevation.
- Wing walls shall be required if ditches are adjacent to the structure.
- Pipe is to be fully welded inside and out to headwalls using two root welds and two finish welds on either side of the wall. All finish welds are to be ground to a smooth finish.
- Headwall and pipe are to be reinforced per AASHTO specifications and structural engineer's requirements.

- All hardware including nuts, bolts, washers, rods, etc. shall be hot dipped galvanized.

- A 2’ wide band and a continuous 3/8" thick x 2' wide flat gasket made of closed cell neoprene rubber which upon assembly provides a watertight seal at each joint will be required.

- All holes or tears in the pipe must be repaired prior to backfilling.

- Pipe bed will be undercut and backfilled with either #5 or #57 stone 1’ below pipe invert elevations. Work for pipe bed undercut and either #5 or #57 Stone will be incidental to the pipe installation.

- Prepare the pipe foundation in accordance with the applicable method as shown in the contract documents, true to line and grade and uniformly firm. Where the material is found to be of poor supporting, value, or rock and when the Engineer cannot make adjustment in the locations of the pipe, undercut existing foundation material within the limits of the plans. Backfill the undercut with the specified material of either #5 or #57 stone. Encapsulate the either #5 or #57 stone with foundation conditioning geotextile before placing bedding material. Overlap all transvers and longitudinal joints in the geotextile at least 18”. Maintain the pipe foundation in dry condition.

- Any undercut beyond the 1’ specified, that is out of the Contractor’s control and directed by the Engineer, will be paid for as Undercut Excavation by the CY which will include the fabric and backfill material of either #5 or #57 stone.

- Backfill material shall be either #5 or #57 stone from 1’ below streambed elevation to top of pipe/box culvert.

- Backfill material shall extend a minimum of 3’ from the O.D. of the pipe in both directions.

- ABC stone will be placed from top of pipe/box culvert to top of subgrade.

- Supplier to include all necessary wale beams, headwall cap, continuous flat gaskets and galvanized steel tieback rods with dma plates and adjustable hot dip galvanized turnbuckles.

- Pipe sections and bands shall be assembled and alphanumerically / alignment match-marked at the plant site before shipping to verify fit.

- Bands shall be installed onto the pipe sections prior to shipping.

- Pipe manufacturer must provide certification of the measured dimensions of the pipe, bands and the continuous flat gaskets. Certification must state that the bands and the gaskets have been pre-fitted and will securely tighten around the supplied pipe. Certification of the dimensions must be signed by the manufacturer’s representative and dated.

  EXAMPLE: Supplied pipe measures ____ inches in diameter. Supplied bands and the continuous flat gaskets measure ____ inches in length and will securely fasten pipe sections, without field modification.
  Signature: _____ Date: _____

NCDOT APPROVED PIPE AND HEADWALL VENDORS:

Contech Construction Products, Inc.
Rahn Sutton
Phone: 919-889-0878

North Carolina Department of Transportation
BID FORM (REV. 2)

CONTRACT: DB00065
WBS ELEMENTS: 17BP.2.R.6, 17BP.2.R.7
COUNTY: Craven
ROUTES: SR 1003, SR 1433
DESCRIPTION: Bridge to Pipe Replacement Projects

BID OPENING: March 28, 2012

LINE #	ITEM NUMBER	SECT	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT BID
1	0000100000-N	800	MOBILIZATION	1	LS		
2	0063000000-N	SP	GRADING FOR BRIDGE NO. 19 SITE	1	LS		
3	0063000000-N	SP	GRADING FOR BRIDGE NO. 208 SITE	1	LS		
4	0234000000-E	SP	UNDERCUT EXCAVATION	60	CY		
5	0992000000-E	SP	ALUMINUM BOX CULVERT – 33'-9" X 9'-1" WITH HEADWALLS	1	EA		
6	0992000000-E	SP	ALUMINUM STRUCTURAL PLATED PIPE ARCH - 12'-3" X 7'-3" WITH HEADWALLS	1	EA		
7	1121000000-E	520	AGGREGATE BASE COURSE	600	TON		
8	1489000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0B	120	TON		
9	1498000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	100	TON		
10	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	60	TON		
11	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	20	TON		
12	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	470	SY		
13	5325600000-E	1510	6" WATER LINE	40	LF		
14	5540000000-E	1515	6" VALVE	2	EA		
15	5800000000-E	1530	ABANDON 6" UTILITY PIPE	464	LF		
16	5871500000-E	1550	TRENCHLESS INSTALLATION OF 8" IN SOIL	400	LF		
17	6000000000-E	1605	TEMPORARY SILT FENCE	1,100	LF		
18	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	60	TON		
19	6012000000-E	1610	SEDIMENT CONTROL STONE	80	TON		
20	6015000000-E	1615	TEMPORARY MULCHING	1	ACR		
21	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	50	LB		
22	6021000000-E	1620	FERTILIZER FOR TEMP. SEEDING	0.25	TON		
23	6029000000-E	SP	SAFETY FENCE	600	LF		
24	6030000000-E	1630	SILT EXCAVATION	20	CY		
25	6036000000-E	1631	MATTING FOR EROSION CONTROL	200	SY		
26	6042000000-E	1632	¼" HARDWARE CLOTH	50	LF		
27	6070000000-N	1639	SPECIAL STILLING BASIN	2	EA		
28	6071010000-E	SP	WATTLE	60	LF		
29	6084000000-E	1660	SEEDING AND MULCHING	0.5	ACR		

30	6090000000-E	1661	SEED FOR REPAIR SEEDING	50	LB		
31	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25	TON		
32	6111000000-E	SP	IMPERVIOUS DIKE	175	LF		
33	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	6	EA		
34	8035000000-N	402	REMOVAL OF EXISTING STRUCTURE, BRIDGE NO. 19	1	LS		
35	8035000000-N	402	REMOVAL OF EXISTING STRUCTURE, BRIDGE NO. 208	1	LS		
36	5325800000-E	1510	8" WATER LINE	400	LF		

TOTAL BID FOR PROJECT:_____

CONTRACTOR _____

ADDRESS _____

_____

Federal Identification Number _____ Contractors License Number _____

Authorized Agent _____ Title _____

Signature _____ Date _____

Witness _____ Title _____

Signature _____ Date _____

THIS SECTION TO BE COMPLETED BY NC DEPARTMENT OF TRANSPORTATION

This bid has been reviewed in accordance with Article 103-1 of the Standard Specifications for Roads and Structures 2012.

Reviewed by NCDOT_____ Date_____

Division Contract Officer

Accepted by NCDOT _____ Date_____

Division Engineer